

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A refrigerant composition comprising:
 - (a) about 20-60 weight percent R-134a;
 - (b) about 40-70 weight percent R-125;
 - (c) about 1-10 weight percent R-32; and
 - (d) about 1-8 weight percent of a hydrocarbon component, the hydrocarbon component comprising one or more hydrocarbons selected from Group A and one or more hydrocarbons selected from Group B, wherein Group A ~~comprises hydrocarbon refrigerants having a boiling point lower than the boiling point of R-134a~~ consists of the hydrocarbons R-290, R-1270, R-170 and R-50, and Group B ~~comprises hydrocarbon refrigerants having a boiling point higher than the boiling point of R-134a~~ consists of the hydrocarbons R-600a, R-600 and R-601; and wherein the Group A hydrocarbon and the Group B hydrocarbon are each present in an amount such that the refrigerant composition is nonflammable both as originally placed in a refrigeration system and after about 99% of the refrigerant composition has leaked from the system.
2. (currently amended) The composition of claim 1, comprising 30-50 weight percent R-134a, 45-60 weight percent R-125, 2-6 weight percent R-32, and 1-5 weight percent of said hydrocarbon component, ~~wherein the hydrocarbons of Group A comprise one or more hydrocarbons selected from the group consisting of R-290, R-1270, R-170 and R-50, and the hydrocarbons of Group B comprise one or more hydrocarbons selected from the group consisting of R-600a, R-600 and R-601.~~
3. (original) The composition of claim 1, comprising 45-50 weight percent R-134a, 45-50 weight percent R-125, 3-5 weight percent R-32, and 1-4 weight percent of the hydrocarbon component, wherein the Group A hydrocarbon comprises R-290 and the Group B hydrocarbon comprises R-600a.

4. (currently amended) The composition of claim ~~1~~ 3, comprising 1-2 weight percent R-290 and 1-2 weight percent R-600a.

5. (original) The composition of claim 4, comprising about 1.5 weight percent R-290 and about 1.5 weight percent R-600a.

6. (currently amended) A refrigerant composition comprising:

(a) about 20-60 weight percent R-134a;

(b) about 40-70 weight percent R-125;

(c) about 1-8 weight percent of a hydrocarbon component, the hydrocarbon component comprising one or more hydrocarbons selected from Group A and one or more hydrocarbons selected from Group B, wherein Group A ~~comprises hydrocarbon refrigerants having a boiling point lower than the boiling point of R-134a~~ consists of the hydrocarbons R-290, R-1270, R-170 and R-50, each of said hydrocarbons having a boiling point lower than the boiling point of R-134a, and Group B ~~comprises hydrocarbon refrigerants having a boiling point higher than the boiling point of R-134a~~ consists of the hydrocarbons R-600a, R-600 and R-601, each of said hydrocarbons having a boiling point higher than the boiling point of R-134a; and wherein the Group A hydrocarbon and the Group B hydrocarbon are each present in an amount such that the refrigerant composition is nonflammable both as originally placed in a refrigeration system and after about 99% of the refrigerant composition has leaked from the system.

7. (currently amended) The composition of claim 6, comprising 30-50 weight percent R-134a, 45-60 weight percent R-125, and 1-5 weight percent of said hydrocarbon component, ~~wherein the hydrocarbons of Group A comprise one or more hydrocarbons selected from the group consisting of R-290, R-1270, R-170 and R-50, and the hydrocarbons of Group B comprise one or more hydrocarbons selected from the group consisting of R-600a, R-600 and R-601.~~

8. (original) The composition of claim 6, comprising 40-50 weight percent R-134a, 50-55 weight percent R-125, and 1-4 weight percent of the hydrocarbon component, wherein the Group A hydrocarbon comprises R-290 and the Group B hydrocarbon comprises R-600a.

9. (currently amended) The composition of claim ~~6~~ 8, comprising 1-2 weight percent R-290 and 1-2 weight percent R-600a.

10. (original) The composition of claim 9, comprising about 1.5 weight percent R-290 and about 1.5 weight percent R-600a.

11. (currently amended) A method for producing refrigeration in a refrigeration system comprising employing as a refrigerant a composition comprising about 20-60 weight percent R-134a; about 40-70 weight percent R-125; about 1-10 weight percent R-32; and about ~~1-8~~ 1-5 weight percent of a hydrocarbon component, the hydrocarbon component comprising one or more hydrocarbons selected from Group A and one or more hydrocarbons selected from Group B, wherein Group A ~~comprises hydrocarbon refrigerants having a boiling point lower than the boiling point of R-134a~~ consists of the hydrocarbons R-290, R-1270, R-170 and R-50, and Group B ~~comprises hydrocarbon refrigerants having a boiling point higher than the boiling point of R-134a~~ consists of the hydrocarbons R-600a, R-600 and R-601; and wherein the total hydrocarbon percentage does not exceed about 5 weight percent in either a liquid phase or vapor phase of the refrigerant, both as originally placed in the refrigeration system and after about 99% of the refrigerant composition has leaked from the system.

12. (currently amended) The method of claim 11, wherein the refrigerant composition comprises 30-50 weight percent R-134a, 45-60 weight percent R-125, 2-6 weight percent R-32, and 1-5 weight percent of said hydrocarbon component, ~~wherein the hydrocarbons of Group A comprise one or more hydrocarbons selected from the group consisting of R-290, R-1270, R-170 and R-50, and the hydrocarbons of Group B comprise one or more hydrocarbons selected from the group consisting of R-600a, R-600 and R-601.~~

13. (original) The method of claim 11, wherein the refrigerant composition comprises 45-50 weight percent R-134a, 45-50 weight percent R-125, 3-5 weight percent R-32, and 1-4 weight percent of the hydrocarbon component, wherein the Group A hydrocarbon comprises R-290 and the Group B hydrocarbon comprises R-600a.

14. (currently amended) The method of claim ~~11~~ 13, wherein the refrigerant composition comprises 1-2 weight percent R-290 and 1-2 weight percent R-600a.

15. (original) The method of claim 14, wherein the refrigerant composition comprises about 1.5 weight percent R-290 and about 1.5 weight percent R-600a.

16. (currently amended) A method for producing refrigeration in a refrigeration system comprising employing as a refrigerant a composition comprising about 20-60 weight percent R-134a; about 40-70 weight percent R-125; and about 1-8 weight percent of a hydrocarbon component, the hydrocarbon component comprising one or more hydrocarbons selected from Group A and one or more hydrocarbons selected from Group B, wherein Group A ~~comprises hydrocarbon refrigerants having a boiling point lower than the boiling point of R-134a~~ consists of the hydrocarbons R-290, R-1270, R-170 and R-50, and Group B ~~comprises hydrocarbon refrigerants having a boiling point higher than the boiling point of R-134a~~ consists of the hydrocarbons R-600a, R-600 and R-601; and wherein the total hydrocarbon percentage does not exceed about 5 weight percent in either a liquid phase or vapor phase of the refrigerant, both as originally placed in the refrigeration system and after about 99% of the refrigerant composition has leaked from the system.

17. (currently amended) The method of claim 16, wherein the refrigerant composition comprises 30-50 weight percent R-134a, 45-60 weight percent R-125, and ~~1-5~~ 1-4 weight percent of said hydrocarbon component, ~~wherein the hydrocarbons of Group A comprise one or more hydrocarbons selected from the group consisting of R-290, R-1270, R-170 and R-50, and the hydrocarbons of Group B comprise one or more hydrocarbons selected from the group consisting of R-600a, R-600 and R-601.~~

18. (original) The method of claim 16, wherein the refrigerant composition comprises 40-50 weight percent R-134a, 50-55 weight percent R-125, and 1-4 weight percent of the hydrocarbon component, wherein the Group A hydrocarbon comprises R-290 and the Group B hydrocarbon comprises R-600a.

19. (currently amended) The composition of claim ~~16~~ 18, wherein the refrigerant composition comprises 1-2 weight percent R-290 and 1-2 weight percent R-600a.

20. (original) The method of claim 19, wherein the refrigerant composition comprises about 1.5 weight percent R-290 and about 1.5 weight percent R-600a.